IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Euan Christopher Smith et al.

MULTI-LINE ADDRESSING METHODS AND APPARATUS

1365.106US1 Docket No.: Filed: Examiner:

Title:

May 9, 2006 Unknown

Serial No.: 10/578,822 Group Art Unit: 2871

Mail Stop Amendment Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

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SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A

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Name

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

(GENERAL)

Receipt date: 07/02/2007

S/N 10/578,822

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Euan Christopher Smith et al.

Examiner: Unknown Group Art Unit: 2871

Serial No.: 10/578,822 Filed: May 09, 2006

Docket: 1365.106US1

MULTI-LINE ADDRESSING METHODS AND APPARATUS

INFORMATION DISCLOSURE STATEMENT

il Stop Amendment Commissioner for Patents

P.O. Box 1450

Title:

Alexandria, VA 22313-1450 In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37

C.F.R. §§ 1.97 et. sea., the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Information Disclosure Statement considered.

INFORMATION DISCLOSURE STATEMENT Serial No: 10/578,822 Filling Date: May 09, 2006 Title: MULTI-LINE ADDRESSING METHODS AND APPARATUS Page 2 Dkt: 1365.106US1

Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications, and Non-Published Applications identifiable by USPTO Serial Number, are no longer required to be provided to the Office. Notification of this change to this effect was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004 and October 19, 2004. Thus, Applicant has not included copies of any US Patents or US Patent Applications identifiable by serial number that may be cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted, EUAN CHRISTOPHER SMITH ET AL.

By their Representatives, SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A. P.O. Box 2938

Minneapolis, MN 55402 (612) 349-9587

Date 29 June '07

Timothy B. Clise Reg. No. 40,957

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NICHO JACA

Signature

Apparend for use findings 1001 (2008)

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE Application Number 10/578,822 STATEMENT BY APPLIS May 9, 2006 Filing Date First Named Inventor Smith, Euan **Group Art Unit** 2871 JUL 0 2 2007 Unknown **Examiner Name** Attorney Docket No: 1365.106US1 Sheet 1 of 3

| US PATENT DOCUMENTS | | | | | |
|-----------------------|---------------------|---------------------|---|-------------------------------|--|
| Examiner Initial * | USP Document Number | Publication Date | Name of Patentee or Applicant of cited Document | Filing Date If Appropriate | |
| | US-20020024513A1 | 02/28/2002 | Kota, Atsushi, et al. | 08/28/2001 | |
| | US-20020063671A1 | 05/30/2002 | Knapp, Alan G. | 11/08/2001 | |
| | US-20020083655A1 | 07/04/2002 | Paul, William, et al. | 03/22/2001 | |
| | US-20020158832A1 | 10/31/2002 | Park, Tae-Kwang, et al. | 02/25/2002 | |
| | US-20030018604A1 | 01/23/2003 | Franz, Martin, et al. | 05/22/2001 | |
| | US-20030193463A1 | 10/16/2003 | Yamada, Fumiaki, et al. | 05/06/2003 | |
| | US-20040125046A1 | 07/01/2004 | Yamazaki, Tatsuro, et al. | 10/08/2003 | |
| | US-20040150608A1 | 08/05/2004 | Kim, Bong-Nam, et al. | 12/17/2003 | |
| | US-20040169463A1 | 09/02/2004 | Burn, Paul L., et al. | 01/20/2004 | |
| | US-20040249615A1 | 12/09/2004 | Grzeszczuk, Radek, et al. | . 12/21/2001 | |
| | US-20050218791A1 | 10/06/2005 | Kawase, Takeo | 06/01/2005 | |
| | US-20060001613A1 | 01/05/2006 | Routley, Paul R., et al. | 07/05/2005 | |
| | US-20060050032A1 | 03/09/2006 | Gunner, Alec G., et al. | 05/23/2005 | |
| | US-20070069992A1 | 03/29/2007 | Smith, E. C., et al. | 09/29/2005 | |
| | US-20070085779A1 | 04/19/2007 | Smith, E. C., et al. | 09/29/2005 | |
| | US-3,621,321 | 11/16/1971 | Williams, Digby F., et al. | 10/28/1969 | |
| | US-4,539,507 | 09/03/1985 | VanSlyke, Steven A., et al. | 03/25/1983 | |
| | US-4,672,265 | 06/09/1987 | Eguchi, Ken, et al. | 07/28/1985 | |
| | US-5,247,190 | 09/01/1993 | Friend, Richard H., et al. | 12/28/1990 | |
| | US-5,646,652 | 07/08/1997 | Saidi, Ali | 04/01/1996 | |
| | US-5,654,734 | 08/05/1997 | Orlen, Noah P., et al. | 05/26/1995 | |
| | US-5,684,502 | 11/04/1997 | Fukui, Yasuhito, et al. | 12/28/1995 | |
| | US-5,747,182 | 05/05/1998 | Friend, Richard H., et al. | 04/03/1995 | |
| | US-5,807,627 | 09/15/1998 | Friend, Richard H., et al. | 03/31/1995 | |
| | US-5,821,690 | 10/13/1998 | Martens, Josef, et al. | 04/22/1996 | |
| | US-5,965,901 | 10/12/1999 | Heeks, Stephen K., et al. | 11/26/1997 | |
| | US-6,014,119 | 01/11/2000 | Staring, Aemilianus G., et al. | 05/17/1996 | |
| | US-6,151,414 | 11/21/2000 | Lee, Daniel D., et al. | 01/30/1998 | |
| | US-6,201,520 | 03/13/2001 | Iketsu, Yuichi, et al. | 09/16/1998 | |
| | US-6.332.661 | 12/25/2001 | Yamaguchi, Hiroshi | 03/27/2000 | |
| | US-6,429,601 | 08/06/2002 | Friend, Richard H., et al. | 08/17/2000 | |
| | US-6,496,168 | 12/17/2002 | Tomida, Takayuki | 10/02/2000 | |
| | US-6,558,219 | 05/06/2003 | Burroughes, Jeremy H., et al. | 09/06/2000 | |
| | US-6,558,818 | 05/06/2003 | Samuel, Ifor D., et al. | 10/23/1998 | |
| | US-6,605,823 | 08/12/2003 | Pichler, Karl, et al. | 07/29/1997 | |
| | US-6,897,473 | 05/24/2005 | Burroughes, Jeremy H., et al. | 01/03/2002 | |
| | US-7,049,010 | 05/23/2006 | Holmes, Andrew B., et al. | 10/21/1998 | |
| | US-7,078,251 | 07/18/2006 | Burroughes, Jeremy, et al. | 10/10/2003 | |
| | US-7,125,952 | 10/24/2006 | O'Dell, Richard, et al. | 10/14/2003 | |
| | US-7,151,341 | 12/19/2006 | Pichler, Karl, et al. | 07/10/2003 | |

EXAMINER /Robert Stone/ DATE CONSIDERED 12/30/2010

Substitute Disclosure Statement Form (PTC-1449)

| Substitute for form 1449A/PTO | Under the Papework Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a visid CAUII control number Complete if Known | | |
|---|--|-------------|--|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | Application Number | 10/578,822 | |
| | Filing Date | May 9, 2006 | |
| | First Named Inventor | Smith, Euan | |
| | Group Art Unit | 2871 | |
| | Examiner Name | Unknown | |
| Sheet 2 of 3 | Attorney Docket No: 1365.106US1 | | |

| FOREIGN PATENT DOCUMENTS | | | | | |
|--------------------------|---------------------|------------------|--|----|--|
| Examiner Initials* | Foreign Document No | Publication Date | Name of Patentee or Applicant of cited Document | T² | |
| | EP-0541295A2 | 05/12/1993 | Tanioka, Hiroshi | | |
| | EP-0581255A1 | 02/02/1994 | Kuwata, Takeshi, et al. | | |
| | EP-0621578A | 10/26/1994 | Fukui, Yasuhito, et al. | | |
| | EP-0678844A1 | 10/25/1995 | Fukui, Yasuhito, et al. | | |
| | EP-1079361A1 | 02/28/2001 | Tokunaga, Masahiro, et al. | | |
| | EP-1091339A2 | 04/11/2001 | Tomida, Takayuki | | |
| | EP-1408479A2 | 04/14/2004 | Yamazaki, Tatsuro, et al. | | |
| | GB-2371910A | 08/07/2002 | Kawase, Takeo | | |
| | GB-2381643A | 05/07/2003 | Smith, Euan C., et al. | | |
| | GB-2388236A1 | 11/05/2003 | Smith, Euan C., et al. | | |
| | GB-2389952A1 | 12/24/2003 | Routley, Paul R., et al. | | |
| | WO-02067343A1 | 08/29/2002 | Burn, Paul, et al. | | |
| | WO-03079322A1 | 09/25/2003 | Smith, Euan C., et al. | | |
| | WO-03091983A1 | 11/06/2003 | Smith, Euan C., et al. | | |
| | WO-2004001707A2 | 12/31/2003 | Trags, Alexander | | |
| | WO-2004003877A2 | 01/08/2004 | Hattori, Reiji | | |
| | WO-2006035246A1 | 04/06/2006 | Smith, Euan C., et al. | | |
| | WO-2006035248A1 | 04/06/2006 | Smith, Euan C., et al. | | |
| | WO-9013148A1 | 11/01/1990 | Friend, Richard H., et al. | | |
| | WO-9506400A1 | 03/02/1995 | Martens, Josef, et al. | | |
| | WO-9921935A1 | 05/06/1999 | Samuel, I., et al. | | |
| | WO-9948160A1 | 09/23/1999 | Burroughes, Jeremy, et al. | | |

| ſ | | OTHER | R DOCUMENTS NON PATENT LITERATURE DOCUMENTS | |] |
|-----|-----------------------|--------------|--|----|------|
| | Examiner Initials* | Cite No 1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the Item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, (k) and/or country where published. | T² | |
| | | | "International Search Report and Written Opinion for Application No. | | 1 |
| | | | PCT/GB2005/050168, Date Mailed January 31, 2006", 7 Pages | | |
| - | | | "United Kingdom Search report for Application No. GB0421711.3", 1 Page | | |
| ı | | | LEE, DANIEL D., et al., "Algorithms for Non-negative Matrix Factorization", | No | Date |
| | | | Advances in Neural Information Processing Systems, Vol. 13, (2001), 556-562 | | |
| Ī | | | LEE, DANIEL D., et al., "Learning the parts of objects by nan-negative matrix | | 1 |
| ~ | | | factorization", NATURE, Vol. 401, (October 1991), 788-791 | | |
| . [| | | LUI, WENGUO, et al., "Existing and new algorithms for non-negative matrix | | 1 |
| | | | factorization", | | l |
| ٠ | | | http://www.cs.utexas.edu/users/liuwg/383Cproject/CS_383C_Project.htm, (2002) | | |
| | | | SHAHNAZ, FARIAL, et al., "Document clustering using nonnegative matrix | | 1 |
| İ | | | factorization", Information Processing and Management, (2004),14 Pages | | |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /R.S./

/Robert Stone/ 12/30/2010 **EXAMINER** DATE CONSIDERED

Receipt date: 07/02/2007

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|--|--|-------------|--|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT | Application Number | 10/578,822 | |
| (Use as many sheets as necessary) | Filing Date | May 9, 2006 | |
| | First Named Inventor | Smith, Euan | |
| | Group Art Unit | 2871 | |
| | Examiner Name | Unknown | |
| Sheet 3 of 3 | Attorney Docket No: 1365.106US1 | | |

| | OTHE | R DOCUMENTS NON PATENT LITERATURE DOCUMENTS | | | |
|-----------------------|--------------|---|---|--|--|
| Examiner Initials* | Cite No 1 | | | | |
| | | TANGSRIRAT, W., et al., "FTFN with variable current gain", Proceedings of | | | |
| | | IEEE Region 10 International Conference on Electrical and Electronic | i | | |
| | Į | Technology, 2001. TENCON., Vol. 1, (2001), 209-212 | | | |
| | | VOGT, FRANK, et al., "Recent advancements in chemometrics for smart | | | |
| | | sensors", Analyst, Vol. 129, (2004), 492-502 | | | |

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /R.S./

| EXAMINER | /Robert Stone/ | DATE CONSIDERED | 12/30/2010 |
|----------|----------------|-----------------|------------|
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